PATENT COOPERATION TREATY

REC'D 2 1 MAR 2006

INTERNATIONAL PRELIMINARY REPORT ON PATENTAMPETY (Chapter II of the Patent Cooperation Treaty)

(PCT Artcle 36 and Rule 70)

						
Applicant's or agent's file reference PCT04018	FOR FURTHER ACTION		See Form PCT/IPEA/416			
International application No.	International filing date(day/month/year)		Priority date (day/month/year)			
PCT/KR2004/002725	26 OCTOBER 2004	(26.10.2004)	29 OCTOBER 2003 (29.10.2003)			
International Patent Classification (IPC						
E06B 7/02(2006.01)i						
Applicant						
LEE, Byung-su						
This report is the international pr Authority under Article 35 and tr	eliminary examination report ansmitted to the applicant ac	, established by this I cording to Article 36.	nternational Preliminary Examining			
2. This REPORT consists of a total	of 4 sheets, in	ncluding this cover sh	eet.			
	d to the International Bureau					
sheets of the des and/or sheets cor Administrative Is	taining rectifications authori	ings which have been zed by this Authority	amended and are the basis for this report (see Rule 70.16 and Section 607 of the			
	•	ch this Authority con	siders contain an amendment that goes			
beyond the discle	sure in the international appl	lication as filed, as in	dicated in item 4 of Box No. I and the			
Supplemental Bob. (sent to the International			61			
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental						
Box relating to Sequence	e Listing (see Section 802 of	the Administrative In	nstructions).			
4. This report contains indications r	_	3:				
Box No. I Basis of the report						
Box No. II Priority	Box No. II Priority					
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
Box No. IV Lack of unity of invention						
Box No. V Reasoned citations an	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Box No. VI Certain do	Box No. VI Certain documents cited					
Box No. VII Certain defects in the international application						
Box No. VIII Certain observations on the international application						
2						
Date of submission of the demand	ļI	Date of completion of	this report			
01 AUGUST 2005 (01.08.2005)	21 FEBRUA	RY 2006 (21.02.2006)			
Name and mailing address of the IPEA	KR /	Authorized officer				
Korean Intellectual Propert 920 Dunsan-dong, Seo-gu, Republic of Korea	y Office	KIM, Hyun Wo				
Facsimile No. 82-42-472-7140	la	Celephone No. 82-42	2-481-5795			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/KR2004/002725

Box No	o. I Basis of the report
1. W	Vith regard to the language, this report is based on the international application in the language in which it was filed, unless therwise indicated under this item. This report is based on translations from the original language into the following language
	which is the language of a translation furnished for the purposes of:
	international search (under Rules 12.3 and 23.1(b))
	publication of the international application (under Rule 12.4)
	international preliminary examination (under Rules 55.2 and/or 55.3)
	th regard to the elements of the international application, this report is based on (replacement sheets which have been furnish the receiving Office in response to an invitation under Article 14 are referred to in this reort as "originally filed" and are not nexed to this report): the international application as originally filed/furnished
	1
لــا	the description:
	pages as originally filed/furnished
	pages* received by this Authority on received by this Authority on
LJ	the claims:
	pagesas originally filed/furnished
	pages* as amended (together with any statment) under Article 19 pages* received by this Authority on
	pages* received by this Authority on
	the drawings: pages
	pages*
	pages*received by this Authority on
	the sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3.	The amendments have resulted in the cancellation of:
	the description, pages
	the claims, Nos
	the drawings, sheets
	the sequence listing (specify):
	any table(s) related to sequence listing (specify):
. 🗇	This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)). the description, pages the claims, Nos. the drawings, sheets the sequence listing (specify): any table(s) related to sequence listing (specify):
Ifitom	4 applies, some or all of those sheets may be marked "superseded"
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/KR2004/002725

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Statement			
Novelty (N)	Claims	1-6	YES
	Claims	NONE	NO
Inventive step (IS)	Claims	2-6	YE:
	Claims	1	NO
Industrial applicability (IA)	Claims	1-6	YE
	Claims	NONE	NO

2. Citations and explanations (Rule 70.7)

Reference is made to the following documents:

D1: KR 1998-0134598 Y (NAM, KI-HONG) 23 October 1998

D2: KR 2001-0249221 Y (JEONG, SANG-HO) 24 September 2001

D3: KR 2003-0316927 Y (KIM, SUNG-WOO) 05 June 2003

D4: JP 03-005647 A (MATSUSHITA SEIKO CO., LTD.) 11 January 1991

1. Novelty

The present invention relates to an automatic air purifying window, wherein induction and discharge parts are formed at a window stile to induce and discharge indoor and outdoor air, a purification cartridge is embedded at an inner portion of a lower window stile, and a filter is formed at the purification cartridge so that the air induced through an indoor air induction port can be induced into the room after passing through the filter.

The invention claimed in claim 1 of the present application differs from those of D1 and D2 in the purification cartridge, and differs from those of D3 and D4 in the frame, the discharge part, and the light transmission portion. Therefore, the subject matter of claim 1 is considered to be

Since claims 2-6 refer directly or indirectly to claim 1, the subject matter of claims 2-6 is also considered to be novel.

2. Inventive Step

D1 and D2 relate to an air shaft for windows which is formed at a window frame for ventilation. The present invention differs from the cited inventions of D1 and D2 in purifying air using a filter. However, purifying air using a filter is disclosed in D3 and D4.

Therefore, the subject matter of claim 1 is considered to lack an inventive step as being obvious over a simple combination of D1 and D4 or D2 and D3.

The activated carbon contained in the purification cartridge, and the photocatalyst coating the purification cartridge as set forth in claim 2 are not described in the cited documents. Accordingly, the invention claimed in claim 2 differs from those of D1-D4 in said technical features. In addition, said technical features produce an effect in automatically purifying polluted indoor air. Therefore, the subject matter of claim 2 is considered to involve an inventive step.

(Continued on Supplemental Sheet.)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of:

Box V.

The plurality of skew plates of claim 3, each of which is provided at the discharge passageway formed inside the upper guide member and at the fluid passageway formed inside of the lower guide member, are not described in D1-D4. Accordingly, the invention claimed in claim 3 differs from those of D1-D4 in said technical features. In addition, said technical features produce an effect in preventing outdoor noise from being transmitted to an indoor place. Therefore, the subject matter of claim 3 is considered to involve an inventive step.

The subject matter of dependent claims 4-6 which refers directly or indirectly to claim 3 is also considered to involve an inventive step.